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Structure/Function Studies of Phosphatidylcholine Transfer Protein

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Phosphatidylcholine transfer protein (PCTP) is a cytosolic protein that acts to transfer phosphatidylcholine (PC) between membranes. PCTP has been proposed to act in hepatocellular transport of biliary PC's. We seek to determine the x-ray crystal structure of PCTP using selenium-based multi wavelength anomalous diffraction methods. The three-dimensional structure of PCTP should allow identification of the binding mode of PC, the identity of key residues involved in its high-affinity recognition and guide further biochemical studies of its mechanism of action.